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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/916,232	07/25/2001	Candice Hellen Brown Elliott	CLRV-001CIA	8209

42304 7590 01/06/2005

CLAIRVOYANTE, INC.  
874 GRAVENSTEIN HIGHWAY SOUTH, SUITE 14  
SEBASTOPOL, CA 95472

EXAMINER
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LESPERANCE, JEAN E

ART UNIT	PAPER NUMBER
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2674

DATE MAILED: 01/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/916,232

Applicant(s)

BROWN ELLIOTT, CANDICE  
HELLEN

Examiner

Jean E Lesperance

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 03 September 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-101 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-22, 28-45 and 50-81 is/are allowed.
- 6) ☒ Claim(s) 23-27, 46-49 and 82-101 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 July 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 9/3/2004.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

1. Claims 1-101 are presented for examination.
2. The amendment filed on 9/3/2004 has been received and entered.
3. The allowable subject matter of claims 23-27, 46-49 and 82-86 are withdrawn.

#### ***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 93 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 93 recites the limitation "said image capture device" in line 5 where this limitation was not mentioned previously. There is insufficient antecedent basis for this limitation in the claim.

#### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 23-27, 46-49, 82-101 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent # 6,144,352 ("Matsuda et al.").

As for claims 23-27, 46-49, Matsuda et al. teach a red emitter that can occupy a left unit-area polygon in said first pixel row depending on how Fig.2A is rotated; a green emitter that can occupy a left unit-area polygon in said second pixel row and a red emitter that can occupy a right unit-area polygon in said second pixel row depending on how Fig.2A is rotated; and a blue emitter that can occupy a center unit-area polygon in both said first and second pixel rows depending on how Fig.2A is rotated and it is obvious to know that two blue emitters should be connected to the same data driver which is where they have to receive their video signal. The prior art does not explicitly teach a left and a right unit area polygon, a blue emitter square shaped, and L-shaped green and red emitters. The prior art teaches an arrangement of LEDs in each light emitting block of red color signal, green color signal, and blue signal where the arrangement of Fig.2A (10) is consisting of three color pixels elements.

Thus, It would have been obvious to a person of ordinary skill in the art to modify the arrangement of LEDs in each light emitting block of red color signal, green color signal, and blue signal where the arrangement of Fig.2A (10) to achieve the function of a left and a right unit area polygon, a blue emitter square shaped, and L-shaped green and red emitters because it would provide an LED display device includes an LED display section including a plurality of light emitting blocks arranged in a matrix, each light emitting block including at least a red LED, a green LED and a blue LED and it is

also obvious a person of ordinary skill in the art to know if two devices can perform the same function their shape does not matter.

As to claims 82-86, Matsuda et al. teach an arrangement of LEDs in each light emitting block of red color signal, green color signal, and blue color signal where the arrangement of Fig.2A (10) is consisting of two pixels, first pixel and second pixel. The arrangement can be divided into four different quadrants where the blue color is at the center of the quadrants disposed at the origin of an X and Y coordinates system forming a first, a second, a third, and fourth quadrant corresponding to providing a three-color pixel element comprising first and second pixel rows, each pixel row including three unit-area polygons, wherein an emitter occupies each said unit-area polygon, wherein a red emitter occupies a left unit-area polygon in said first row and a green emitter occupies a right unit-area polygon in said first pixel row, wherein a green emitter occupies a left unit-area polygon in said second pixel row and a red emitter occupies a right unit-area polygon in said second pixel row, wherein a blue emitter occupies a center unit-area polygon in both said first and said second pixel rows, and wherein adjacent horizontal pairs of said three-color pixel elements are vertically offset from one another by one said pixel row; and driving said blue emitters, said red emitters, and said green emitters, wherein said blue emitters of said three-color pixel element is coupled to a pair of blue emitters of a next nearest neighboring three-color pixel element.

As for claims 87, 88, 90, 92-94, 97 and 98, Matsuda et al. teach a three color pixel elements Fig.2A (10) which is comprising of at least a blue emitter, a red emitter and a green emitter and it is obvious to know that two blue emitters of two three-color

pixel elements should be connected to the same data driver or same column driver because that is where they have to receive their video data for the display.

As for claims 89, 96 and 99, Matsuda et al. teach a LED display device Fig. 1 (11), which can be an organic LED.

As for claim 91, Matsuda et al. teach two neighboring blue emitters that are connected to the same row driver (see Figure 1).

As for claims 95, 100 and 101, Matsuda et al. teach Figure 3 with each emitter is capable of being driven with a variable analog signal and having a column direction and a row direction as a first direction.

### ***Allowable Subject Matter***

6. Claims 1-22, 28-45 and 50-81 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: the claimed invention is directed to an array for a display. The prior art fails to anticipate or render obvious a uniquely distinct feature "three column lines associated with each said column position in said array, a first of said column lines coupled to said red emitters and to said green emitters in said column position disposed left of said origin of said rectangular coordinate system in each of said three-color pixel elements, a second of said column lines coupled to said blue emitter in said column position disposed at said origin of said rectangular coordinate system in each of said three-color pixel elements, and a third of said column lines coupled to said red emitters and to said green emitters in said column position disposed right of said origin of said rectangular

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coordinate system in each of said three-color pixel elements, wherein said second column line is coupled to said second column line of a next nearest neighboring said three-color pixel element". Furthermore, the prior art fails to anticipate or render obvious a uniquely distinct feature "a twelfth column line coupled to said tenth column line driver, said tenth column line coupled to said second red emitter and said first green emitter of said fourth three-color pixel element". The prior art fails to anticipate or render obvious a uniquely distinct feature "wherein at least two blue emitters of at least two three-color pixel elements are connected to the same driver and a pair of green emitters such that said red emitters and said green emitters form substantially a checkerboard pattern upon said image capture device and wherein at least two blue emitters in a same first direction of at least two three-color pixel elements are connected to a same data driver".

### ***Response to Amendment***

7. Applicant's arguments filed 9/3/2004 have been fully considered but they are not persuasive. The applicant argued that Fig.2A of the prior art is not the same as Fig.1 of the present invention. Examiner disagrees with the applicant because they are exactly the same thing. They both teach a three-color pixel elements which is comprising of at least a blue emitter, a red emitter and a green emitter. The applicant argued that the amended claims 23 and 46 traverses the rejection because of the following change "wherein at least two blue emitters of at least two three-color pixel elements are connected to a same data driver". Examiner disagrees with the applicant on the above statement. It is obvious in the art to have two similar sub-pixel to be connected to the

same video driver because there is only one data driver. The applicant argued that the amended claim 82 traverses the rejection because of the following change "wherein said blue emitter of said three-color pixel element is coupled to a blue emitter of a next nearest neighboring three-color pixel element". Examiner disagrees with the applicant because when the blue emitters are in the same array of pixel, it is obvious that the nearest ones are going to be connected to each other first. The applicant argued that nowhere in Matsuda et al. there is a teaching or suggestion for sharing of such drivers by blue emitters. Examiner disagrees with the applicant, it is obvious in a display array for all the sub-pixels to share the same data driver because there is only one. Therefore, the rejection is maintained.

### **Conclusion**

**8. THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.



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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Lesperance whose telephone number is (703) 308-6413. The examiner can normally be reached on from Monday to Friday between 8:00AM and 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709 .

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal drive, Arlington, VA, Sixth Floor (Receptionist).

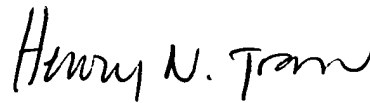
Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Jean Lesperance



Date 1-3-2005

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HENRY N. TRAN  
PRIMARY EXAMINER